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A hypothetical model of the foreign antigen binding site of Class II histocompatibility molecules: erratum (*with* Jardetzky, T, Saper, M A, Samraoui, B, Bjorkman, P J, Wiley, D C) *Letter to Nature*, **333,** 786
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Buratowski, S. Function of yeast TATA element-binding protein in a mammalian transcription system (*with* Hahn, S, Sharp, P A, Guarente, L) *Article*, **334,** 37
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Book review of Population genetics: Basic principles (*by* Doolittle, D P.) **332,** 182
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Felton, C C. Measurements of the diurnal OH cycle by a ^{14}C-tracer method (*with* Sheppard, J C, Campbell, M J) *Letter to Nature,* **335,** 53
Feng, S. HIV-1 *tat trans*-activation requires the loop sequence within *tar* (*with* Holland, E C) *Letter to Nature,* **334,** 165
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Ferrin, I. Has comet Halley retained its primordial angular momentum?, *Letter to Nature,* **333,** 834
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light harvesting in photosynthesis (*with* Freiberg, A M, Timpmann, K E) *Letter to Nature*, **334**, 633

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Feynman, R P. "What do you care what other people think?" Further adventures of a curious character, *Book review by* Greenberg, D S. **336**, 23

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Is the space environment at risk? (*with* Rees, M J, Spergel, D N) *Commentary*, **336**, 725

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Fielder, A R. A rideways look (*with* Moseley, M J) *Correspondence*, **334**, 10

Fields, A P. Human immunodeficiency virus induces phosphorylation of its cell surface receptor (*with* Bednarik, D P, Hess, A, May, W S) *Letter to Nature*, **333**, 278

Fiers, W. Explanation of Benveniste, *Correspondence*, **334**, 286

Fifield, R. Editor, International research in the Antarctic. *Book review by* Llano, G A. **332**, 764

Figge, J. Cell-division sequence motif (*with* Smith, T F) *Scientific correspondence*, **334**, 109

Figueroa, F. MHC polymorphism pre-dating speciation (*with* Günther, E, Klein, J) *Letter to Nature*, **335**, 265

Fikre, G. Infection of rabbits with human immunodeficiency virus (*with* Cereda, P M, Varnier, O E) *Letter to Nature*, **335**, 366

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Filipski, J. Sequence-based phylogeny in eukaryotic genomes, *Scientific correspondence*, **334**, 571

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Fischer, G. Seasonal variability of particle flux in the Wedell Sea and its relation to ice cover (*with* Fütterer, D, Gersonde, R, Honjo, S, Ostermann, D, Wefer, G) *Letter to Nature*, **335**, 426

Fischer, J A. GAL4 activates transcription in *Drosophila* (*with* Giniger, E, Maniatis, T, Ptashne, M) *Letter to Nature*, **332**, 853

Fischinger, P J. *See under* Nara, P L., **332**, 469

Fisher, A G. Biologically diverse molecular variants within a single HIV-1 isolate (*with* Ensoli, B, Looney, D, Rose, A, Gallo, R C, Saag, M S, Shaw, G M, Hahn, B H, Wong-Staal, F) *Letter to Nature*, **334**, 444

Fisher, N S. Predicting the oceanic flux of radionuclides on sinking biogenic debris (*with* Cochran, J K, Krishnaswami, S, Livingston, H D) *Letter to Nature*, **335**, 622

Fisher, P. Orthodoxy and homoeopathy, *Correspondence*, **335**, 292

Fisher, R A. HIV infection is blocked *in vitro* by recombinant soluble CD4 (*with* Bertonis, J M, Meier, W, Johnson, V A, Costopoulos, D S, Liu, T, Tizard, R, Walker, B D, Hirsch, M S, Schooley, R T, Flavell, R A) *Letter to Nature*, **331**, 76

Fisher, R B. Jenner request, *Correspondence*, **336**, 418

Fishman, G J. Observation of an ionospheric disturbance caused by a gamma-ray burst (*with* Inan, U S) *Letter to Nature*, **331**, 418

Fitch, W M. Examples, please, *Scientific correspondence*, **334**, 19

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Ford, J. *Book review of* Hamiltonian dynamical systems (*by* MacKay, R S, Meiss, J D.) **331**, 494

Ford, M J. Nuclear protein with sequence homology to translation initiation factor eIF-4A (*with* Anton, I A, Lane, D P) *Letter to Nature*, **332**, 736

Forey, P L. Golden jubilee for the coelacanth *Latimeria chalumnae*, *Review article*, **336**, 727

Forgan, T. Superconducting ceramics: Rare-earth elements redundant (*with* Greaves, C) *News and views*, **332**, 14

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Forster, A C. Self-cleaving viroid and newt RNAs may only be active as dimers (*with* Davies, C, Sheldon, C C, Jeffries, A C, Symons, R H) *Letter to Nature*, **334**, 265

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Forsythe, R D. Is the Gordii Dorsum escarpment on Mars an exhumed transcurrent fault (*with* Zimbelman, J R) *Letter to Nature*, **336**, 143

Fortenbaugh, W W. Editor, Theophrastean studies: On natural science, physics and metaphysics, ethics, religion and rhetoric, *Book review by* Temple, R. **335**, 506

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Imaging of liquid crystals using a tunnelling microscope (*with* Frommer, J E) *Letter to Nature*, **333**, 542

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Fowlkes, B J. Deletion of self-reactive thymocytes occurs at a $CD4^+8^+$ precursor stag e (*with* Schwartz, R H, Pardoll, D M) *Letter to Nature*, **334**, 620

Fox, B. *See under* Abe, R., **335**, 827

Fox, B S. Processing of a minimal antigenic peptide alters its interaction with MHC molecules (*with* Carbone, F R, Germain, R N, Paterson, Y, Schwartz, R H) *Letter to Nature*, **331**, 538

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Fox, J. Editor, The knowledge engineering review, *Journal review by* Michie, D. **335**, 461

Fox, L E. Solubility of colloidal ferric hydroxide, *Letter to Nature*, **333**, 442

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Franks, N P. Volatile general anaesthetics activate a novel neuronal K^+ current (*with* Lieb, W R) *Letter to Nature*, **333**, 662

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Free, J B. *Book review of* Biogeography and taxonomy of honeybees (*by* Ruttner, F.) **335**, 309

Freedman, L P. The function and structure of the metal coordination sites within the glucocorticoid receptor DNA binding domain (*with* Luisi, B F, Korszun, Z R, Basavappa, R, Sigler, P B, Yamamoto, K R) *Letter to Nature*, **334**, 543

Freedman, M H. Risks of AIDS, *Correspondence*, **333**, 389

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Frégnac, Y. A cellular analogue of visual cortical plasticity (*with* Shulz, D, Thorpe, S, Bienenstock, E) *Letter to Nature*, **333**, 367

A cellular analogue of visual cortical plasticity: erratum (*with* Shulz, D, Thorpe, S, Bienenstock, E) *Letter to Nature*, **333**, 786

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Fremlin, J. *Book review of* Radon and its decay products: Occurrence, properties, and health effects (Hopke, P K *editor*) **335**, 125

Book review of Indoor radon and its hazards (Bodansky, D, Robkin, M A, Stadler, D R *editors*) **335**, 125

Book review of Environmental radon (Cothern, C R, Smith, J E *editors*) **335**, 125

Book review of Radon and its decay products in indoor air (Nazaroff, W W, Nero, A V *editors*) **335**, 125

Book review of Health risks of radon and other internally deposited alpha-emitters. BEIR IV. **335**, 125

Fresnlin, J H. Leukaemia in UK, *News*, **334**, 8

French, A P. *Book review of* The world of physics: A small library of the literature of physics from antiquity to the present, Vols I-III (*by* Weaver, J H.) **332**, 598

Frenkel, D. Thermodynamic stability of a smectic phase in a system of hard rods (*with* Lekkerkerker, H N W, Stroobants, A) *Letter to Nature*, **332**, 822

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Freund, T F. GABA-containing neurons in the septum control inhibitory interneurons in the hippocampus (*with* Antal, M) *Letter to Nature*, **336**, 170

Friedjung, M. Magic results. *Correspondence*, **334**, 646

Friedman, A D. Expression of a truncated viral *trans*-activator selectively impedes lytic infection by its cognate virus (*with* Triezenberg, S J, McKnight, S L) *Letter to Nature*, **335**, 452

Friedman, J L. Cosmology: Back to the future, *News and views*, **336**, 305

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Friend, C R L. Late Archaean terrane accretion in the Godthåb region, southern West Greenland (*with* Nutman, A P, McGregor, V R) *Letter to Nature*, **335**, 535

Friend, R. Amorphous semiconductors: Making multilayered samples, *News and views*, **334**, 118

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A millisecond pulsar in an eclipsing binary (*with* Stinebring, D R, Taylor, J H) *Letter to Nature*, **333**, 237

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Optical detection and characterization of the eclipsing pulsar's companion (*with* Gunn, J E, Lauer, T R, Dressler, A) *Letter to Nature*, **334**, 686

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Fry, A M. Self-tolerance alters T-cell receptor expression in an antigen-specific MHC restricted immune response (*with* Matis, L A) *Letter to Nature*, **335**, 830

Fry, C H. Editor, The birds of Africa, Vol. III, *Book review by* Perrins, C M. **335**, 214

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Fukuda, K. Selective coupling with K+ currents of muscarinic acetylcholine receptor subtypes in NG108-15 cells (*with* Higashida, H, Kubo, T, Maeda, A, Akiba, I, Bujo, H, Mishina, M, Numa, S) *Letter to Nature*, **335**, 355

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Fulker, D W. Genetic influence on general mental ability increases between infancy and middle childhood (*with* DeFries, J C, Plomin, R) *Letter to Nature*, **336**, 767

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Gadian, D. *Journal review of* Reviews of magnetic resonance in medicine (Gore, J C *editor*) **335**, 477

Journal review of Journal of medical imaging (Schütte, H E *editor*) **335**, 477

Gaffney, B. Estimation of genetic trend in racing performance of thoroughbred horses (*with* Cunningham, E P) *Letter to Nature*, **332**, 722

Gage, A T. A bicentenary history of the Linnean Society of London, *Book review by* Allen, D E. **332**, 757

Gainer, T K. Ultra-high energy radiation from young supernovae (*with* Stanev, T, Halzen, F) *News and views*, **332**, 314

Galison, P. How experiments end, *Book review by* Bullock, F W. **334**, 576

Gall, J G. *Book review of* Molecular biology of the gene, 4th edn (*by* Watson J D, Hopkins, N H, Roberts, J W, Steitz, J A, Weiner, A M,) **332**, 27

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Book review of Current protocols in molecular biology (Ausubel, F *editor*) **333**, 309

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Book review of DNA cloning: A practical approach, Volume III (Glover, D M *editor*) **333**, 309

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Gao, E-K. Abnormal differentiation of thymocytes in mice treated with cyclosporin A (*with* Lo, D, Cheney, R, Kanagawa, O, Sprent, J) *Letter to Nature*, **336**, 176

Gao, L. Bulk superconductivity in $Tl_2CaBa_2Cu_2O_{8+\delta}$ up to 120 K (*with* Huang, Z J, Meng, R L, Hor, P H, Bechtold, J, Sun, Y Y, Chu, C W, Sheng, Z Z, Hermann, A M) *Letter to Nature*, **332**, 623

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Gardiner, K. Transverse alternating electrophoresis (*with* Patterson, D) *Miscellany*, **331**, 371

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Gardner, C S. Lidar observations of substantial sodium depletion in the summertime Arctic mesosphere (*with* Senft, D C, Kwon, K H) *Letter to Nature*, **332**, 142

Gardner, M. *Book review of* Bare faced messiah: The true story of Ron L Hubbard (*by* Miller, R,) **331**, 125

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Garrels, R M. Editor, Chemical cycles in the evolution of the Earth, *Book review by* van Andel, T H. **336**, 432

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Garrington, S T. A systematic asymmetry in the polarization properties of double radio sources with one jet (*with* Leahy, J P, Conway, R G, Laing, R A) *Letter to Nature*, **331**, 147

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Garthwaite, J. Endothelium-derived relaxing factor release on activation of NMDA receptors suggests role as intercellular messenger in the brain (*with* Charles, S L, Chess-Williams, R.) *Letter to Nature*, **336**, 385

Garwin, L. Superhoax at 190 K, *News*, **332**, 101

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Santschi, P H. Uranium in pore waters from north Atlantic (GME and Southern Nares abyssal plain) sediments (*with* Bajo, C, Mantovani, M, Orciuolo, D, Cranston, R E, Bruno, J) *Letter to Nature*, **331**, 155

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Sastry, G R K. Fertility symbols?, *Correspondence*, **333**, 202

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Dover, R B, Glasum, S H, Sunshine, S A, Fleming, R M, Batlogg, B, Siegrist, T, Marshall, J H, Wasczak, J V, Rupp, L W) *Letter to Nature*, **332**, 422
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L J, Klein, J) *Letter to Nature*, **332**, 712

Tautz, D. Regulation of the *Drosophila* segmentation gene *hunchback* by two maternal morphogenetic centres, *Letter to Nature*, **332**, 281

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Taylor, R J. Stellar nucleosynthesis: Neutron reaction rates revised, *News and views*, **333**, 596
Stellar evolution: What makes red giants?, *News and views*, **335**, 14

Taylor, A R. Radio images of the expanding ejecta of nova QU Vulpeculae 1984 (*with* Hjellming, R M, Seaquist, E R, Gehrz, R D) *Letter to Nature*, **335**, 235

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Book review of Theophrastean studies: On natural science, physics and metaphysics, ethics, religion and rhetoric (Fortenbaugh, W W, Sharples, R W *editors*) **338**, 506

ten Brown, H L. Pristane/phytane ratio as environmental indicator: Reply (*with* Rullkötter, J, de Leeuw, J W, Damsté, J S S) *Scientific correspondence*, **333**, 604

ten Kate, L P. Cystic fibrosis allele segregation (*with* te Meerman, G J, Buys, C H C M, Halley, D J J, Oostra, B) *Scientific correspondence*, **334**, 20

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Tessman, I. Origin of mutants disputed, *Scientific correspondence*, **336**, 527

Testart, J. Towards a better control over science (*with* Arnac, J, Bouniss, M, Cause, M, Delenge, J-P, Gaponer, A, Jacquard, A, Levy-Lebloud, J-M, Meyer, J-M, Michel, F B, Panijel, J, Prum, B, Rouard, J-P, Salomon, J-C, Scheidecker, J-P, Shapira, J-P, Sintzoff, M) *Correspondence*, **333**, 390

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Thapa, S. Breast feeding, birth spacing and their effects on child survival (*with* Short, R V, Potts, M) *Commentary*, **335**, 679
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***c-jun* proto-oncogene.** Epidermal growth factor stimulates transcription of the *c-jun* proto-oncogene in rat fibroblasts, *Letter to Nature*, (Quantin, B and Breathnach, R) **334**, 538

***c-kit* proto-oncogene.** The proto-oncogene *c-kit* encoding a transmembrane tyrosine kinase receptor maps to the mouse W locus, *Letter to Nature*, (Chabot, B, Stephenson, D A, Chapman, V M, Besmer, P and Bernstein, A) **335**, 88

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***c-myc* oncogene.** A human immunoglobulin gene reduces the incidence of lymphomas in *c-Myc*-bearing transgenic mice, *Article*, (Nussenzweig, M C, Schmidt, E V, Shaw, A C, Sinn, E, Campos-Torres, J, Mathey-Prevot, B, Pattengale, P K and Leder, P) **336**, 446

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Canada, space station. All go for Canada and space station, *News*, (Palca, J) **333**, 6

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Von Hippel-Lindau disease maps to the region of chromosome 3 associated with renal cell carcinoma, *Letter to Nature*, (Seizinger, B R, Rouleau, G A, Ozelius, L J, Lane, A H, Farmer, G E, Lamiell, J M, Haines, J, Yuen, J W M, Collins, D, Majoor-Krakauere, D, Bonner, T, Mathew, C, Rubenstein, A, Halperin, J, McConkie-Rosell, A, Green, J S, Trofatter, J A, Ponder, B A, Eierman, L, Bowmer, M I, Schimke, R, Oostra, B, Aronin, N, Smith, D I, Drabkin, H, Waziri, M H, Hobbs, W J, Martuza, R L, Conneally, P M, Hsia, Y E and Gusella, J F) **332**, 268

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A human immunoglobulin gene reduces the incidence of lymphomas in *c-Myc*-bearing transgenic mice, *Article*, (Nussenzweig, M C, Schmidt, E V, Shaw, A C, Sinn, E, Campos-Torres, J, Mathey-Prevot, B, Pattengale, P K and Leder, P) **336**, 446

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Cancer, human. A Harvey-ras responsive transcription element is also responsive to a tumour-promoter and to serum, *Letter to Nature*, (Imler, J L, Schatz, C, Wasylyk, C, Chatton, B and Wasylyk, B) **332**, 275

Cancer, lung. Correlation of DNA adduct levels in human lung with cigarette smoking, *Letter to Nature*, (Phillips, D H, Hewer, A, Martin, C N, Garner, R C and King, M M) **336**, 790

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CD4. Substitution of murine for human CD4 residues identifies amino acids critical for HIV-gp120 binding, *Letter to Nature*, (Clayton, L K, Hussey, R E, Steinbrich, R, Ramachandran, H, Hussin, Y and Reinherz, E L) **335**, 363

CD4 glycoprotein. HIV infection is blocked *in vitro* by recombinant soluble CD4, *Letter to Nature*, (Fisher, R A, Bertonis, J M, Meier, W, Johnson, V A, Costopoulos, D S, Liu, T, Tizard, R, Walker, B D, Hirsch, M S, Schooley, R T and Flavell, R A) **331**, 76

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A soluble form of CD4 (T4) protein inhibits AIDS virus infection, *Letter to Nature*, (Deen, K C, McDougal, J S, Inacker, R, Folena-Wasserman, G, Arthos, J, Rosenberg, J, Maddon, P J, Axel, R and Sweet, R W) **331**, 82

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CD4 molecule. Engagement of the CD4 molecule influences cell surface expression of the T-cell receptor on thymocytes, *Letter to Nature*, (McCarthy, S A, Kruisbeek, A M, Uppenkamp, I K, Sharrow, S O and Singer, A) **336**, 76

CD4 phosphorylation. Human immunodeficiency virus induces phosphorylation of its cell surface receptor, *Letter to Nature*, (Fields, A P, Bednarik, D P, Hess, A and May, W S) **333**, 278

CD4 protein. Lymphocyte activation by HIV-1 envelope glycoprotein, *Letter to Nature*, (Kornfeld, H, Cruikshank, W W, Pyle, S W, Berman, J S and Center, D M) **335**, 445

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Cell-cell interactions. Platelet-derived growth factor promotes division and motility and inhibits premature differentiation of the oligodendrocyte/type-2 astrocyte progeni, *Letter to Nature*, (Noble, M, Murray, K, Stroobant, P, Waterfield, M D and Riddle, P) **333**, 560

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Activation at M-phase of a protein kinase encoded by a starfish homologue of the cell cycle control gene *cdc2*$^+$, *Letter to Nature*, (Labbe, J C, Lee, M G, Nurse, P, Picard, A and Doree, M) **335**, 251

Human cdc2 protein kinase is a major cell-cycle regulated tyrosine kinase substrate, *Article*, (Draetta, G, Piwnica-Worms, H, Morrison, D, Druker, B, Roberts, T and Beach, D) **336**, 738

Cell-cycle control protein. Regulated expression and phosphorylation of a possible mammalian cell-cycle control protein, *Letter to Nature*, (Lee, M G, Norbury, C J, Spurr, N K and Nurse, P) **333**, 676

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Cell differentiation, Amphibia. Developmental biology: Growth factors in amphibian cell differentiation, *News and views*, (Woodland, H and Jones, L) **332**, 113

Cell differentiation, endothelium. A Tissue-specific endothelial cell molecule involved in lymphocyte homing, *Article*, (Streeter, P R, Lakey Berg, E, Rouse, B T N, Bargatze, R F and Butcher, E C) **331**, 41

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Cell growth. Nuclear protein with sequence homology to translation initiation factor eIF-4A, *Letter to Nature*, (Ford, M J, Anton, I A and Lane, D P) **332**, 736

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A cloned octamer transcription factor stimulates transcription from lymphoid-specific promoters in non-B cells, *Article*, (Müller, M M, Ruppert, S, Schaffner, W and Matthias, P) **336**, 544

A human lymphoid-specific transcription factor that activates immunoglobulin genes is a homoeobox protein, *Article*, (Scheidereit, C, Cromlish, J A, Gerster, T, Kawakami, K, Balmaceda, C-G, Currie, R A and Roeder, R G) **336**, 551

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Activation and repression of transcription by homoeodomain-containing proteins that bind a common site, *Article*, (Jaynes, J B and O'Farrell, P H) **336**, 744

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India, history of science and technology. History of science and technology in ancient India: The beginnings, (Chattopadhyaya, D) *book review by* Temple, R. **331**, 127

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India, news review 1987. Indian gloom over drought lifted by 'big science' projects, *News,* (Jayaraman, K S) **331**, 7

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Initiation factors. The product of the *Drosophila* gene *vasa* is very similar to eukaryotic initiation factor-4A, *Article*, (Lasko, P F and Ashburner, M) **335**, 611
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Insulin signalling. Insulin-stimulated MAP-2 kinase phosphorylates and activates ribosomal protein S6 kinase II, *Letter to Nature*, (Stugill, T W, Ray, L B, Erikson, E and Maller, J L) **334**, 715
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***int-2* proto-oncogene.** Disruption of the proto-oncogene *int-2* in mouse embryo-derived stem cells: a general strategy for targeting mutations to non-selectable genes, *Article*, (Mansour, S L, Thomas, K R and Capecchi, M R) **336**, 348
Integrin. Laminin receptor on platelets is the integrin VLA-6, *Letter to Nature*, (Sonnenberg, A, Modderman, P W and Hogervorst, F) **336**, 487
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Interleukin. Interleukin-1β as a potent hyperalgesic agent antagonized by a tripeptide analogue, *Letter to Nature*, (Ferreira, S H, Lorenzetti, B B, Bristow, A F and Poole, S) **334**, 698
Stimulation of B-cell progenitors by cloned murine interleukin-7, *Letter to Nature*, (Namen, A E, Lupton, S, Hjerrild, K, Wignall, J, Mochizuki, D Y, Schmierer, A, Mosley, B, March, C J, Urdal, D, Gillis, S, Cosman, D and Goodwin, R G) **333**, 571
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Interleukin-2 receptors. Expression of functional interleukin-2 receptors in human light chain/Tac transgenic mice, *Letter to Nature*, (Nishi, M, Ishida, Y and Honjo, T) **331**, 267
Interleukin-4. Interleukin-4 mediates CD8 induction on human $CD4^+$ T-cell clones, *Letter to Nature*, (Paliard, X, Malefijt, R W, Vries, J E de and Spits, H) **335**, 642
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Ras proteins. A Harvey-ras responsive transcription element is also responsive to a tumour-promoter and to serum, *Letter to Nature*, (Imler, J L, Schatz, C, Wasylyk, C, Chatton, B and Wasylyk, B) **332**, 275
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***rev* gene.** Immunodeficiency virus *rev trans*-activator modulates the expression of the viral aregulatory genes, *Letter to Nature*, (Malim, M H, Hauber, J, Fenrick, R and Cullen, B R) **335**, 181

Rev protein. Functional replacement of the HIV-1 rev protein by the HTLV-1 rex protein, *Letter to Nature*, (Rimsky, L, Hauber, J, Dukovich, M, Malim, M H, Langlois, A, Cullen, B R and Greene, W C) **335**, 738

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Synthesis, structure and superconductivity in the $Ba_{1-x}KBiO_{3-y}$system, *Letter to Nature*, (Hinks, D G, Dabrowski, B, Jorgensen, J D, Mitchell, A W, Richards, D R, Pei, S and Shi, D) **333**, 836

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Structure determination of the new high-temperature superconductor $Y_2BaCu_7O_{14+x}$, *Letter to Nature*, (Border, P, Chaillout, C, Chenavas, J, Hodeau, J L, Marezio, M, Karpinski, J and Kaldis, E) **334**, 596

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Evidence from angle-resolved resonant photoemission for oxygen-2*p* natureof the Fermi-liquid states in $Bi_2CaSr_2Cu_2O_8$, *Letter to Nature*, (Takahashi, T, Matsuyama, H, Katayama-Yoshida, H, Okabe, Y, Hosoya, S, Seki, K, Fujimoto, H, Sato, M and Inokuchi, H) **334**, 691

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Growth and structural characterization of superconducting $Ba_{1-x}K_xBiO_3$, *Letter to Nature*, (Schneemeyer, L F, Thomas, J K, Siegrist, T, Batlogg, B, Rupp, L W, Opila, R L, Cava, R J and Murphy, D W) 335, 421

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Synthesis, structure and superconducting properties of metastable $Y(Ba_{2-x}Y_x)Cu_3O_{7-\delta}$, *Letter to Nature*, (Iqbal, Z, Reidinger, F, Bose, A, Cipolini, N, Taylor, T J, Eckhardt, H, Ramakrishna, B L and Ong, E W) 331, 326

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Thymus. Deletion of self-reactive thymocytes occurs at a $CD4^+8^+$ precursor stage, *Letter to Nature*, (Fowlkes, B J, Schwartz, R H and Pardoll, D M) **334**, 620

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A human lymphoid-specific transcription factor that activates immunoglobulin genes is a homoeobox protein, *Article*, (Scheidereit, C, Cromlish, J A, Gerster, T, Kawakami, K, Balmaceda, C-G, Currie, R A and Roeder, R G) **336**, 551

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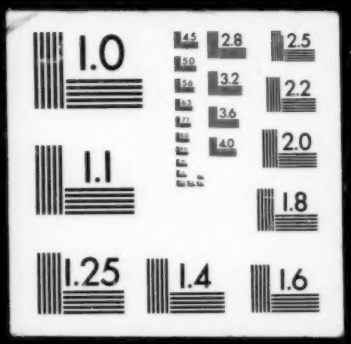
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4.0
1.8